

Public Notice
PERMIT APPLICATION: NRS #06.297

APPLICANT: TDOT

505 Deaderick Street
Suite 900 James K Polk Bldg.
Nashville, TN 37243-0339
(615) 253-2477

LOCATION: Greenlea Blvd and an SIA for the GAP, Inc.

From Harris Lane to SR-6 (US 31-E)
Site Lat. 36.3662° Long. -86.5054°
Gallatin, Sumner County

This application is for an aquatic resource alteration permit for stream and wetland impacts associated with the construction of Greenlea Boulevard, a 5-lane connector extending from Harris Lane to Gallatin Road (US 31E) being constructed as infrastructure for the proposed Greensboro Village commercial development. Associated with this connector is Gap Road, a state industrial access road for the GAP Inc to be constructed west from the GAP Inc along the Vol. State property line to the proposed Greenlea Boulevard. Additionally, two connector roads from St. Blaise Road to the proposed Greenlea Boulevard are proposed.

WATERSHED DESCRIPTION: This project would impact 3 streams, Rankin Branch and two unnamed tributaries to Rankin Branch, located in the Lower Cumberland Watershed (HUC 05130202). The land use surrounding Rankin Branch is agricultural. The land use surrounding the overall property parcels is commercial. Rankin Branch has not been assessed with regard to meeting its designated uses. **USGS TOPO QUAD:** Hendersonville, TN (310-SE)

PROJECT DESCRIPTION: Beginning from Harris Lane, Station 46+28.07, a 5-lane road would be constructed south to Gallatin Road, crossing over CSX railroad tracks at Station 57+35.52 and impacting 3 streams and 3 wetlands near the crossing of Rankin Branch. Seep 1, Station 76+50 to Station 78+00, would be filled with rock to allow water to continue flowing to Stream 1.

Stream 1, Station 79+00 Lt to Station 84+50 Lt, Lat. 36.3675° Long. -86.5042° an unnamed tributary to Rankin Branch is a first order stream approximately 860 ft long originating from springs/seeps. The stream width ranges from 6 inches to 3ft with soil substrate. The upstream portion has a forested canopy while the downstream portion flows in a vegetated channel through Wetland 2, 0.062 acres, at Station 83+00 Rt into Rankin Branch.

Proposed is the relocation of 470ft of this stream approximately 150ft east into a 700ft channel. The old channel would be filled. The new channel would have a trapezoidal turf mat lined channel with a 15 inch low flow notch, a 3ft bottom width and 2:1 slopes. Trees are proposed 3ft from the top of bank. A 74ft 45inch x 29inch culvert would be

constructed for the proposed intersection of Gap Road with the Greenlea Boulevard. Wetland 2, Station 83+00+/- to Station 83+60 Rt, and Wetland 3, Station 85+50 to Station 85+15 Lt, would be filled. Wetland 2, 0.062 acres, and Wetland 3, 0.019 acres, are herbaceous and located within the floodplain of Rankin Branch

Stream 2, Station 16+50 Lt to 18+80 Lt (Gap Road), Lat. 36.3668° Long. -86.5046°, an unnamed tributary to Rankin Branch is a first order stream approximately 350ft in length originating from seeps and having a soil substrate. This stream flows overland from the northeast along the Vol. State property line into the floodplain of Rankin Branch and Wetland 2. The channel width ranges from 6inches to 2ft wide.

Proposed is the relocation of this stream into a 262ft trapezoidal turf mat lined channel with a 15inch wide low flow notch, 3ft wide bottom with 2:1 slopes. Trees are proposed to be planted 3ft from top of bank. The new channel would intercept the proposed channel for stream 1 upstream of the proposed culvert at Gap Blvd. TDOT proposes mitigation to the Tennessee Stream Mitigation Program (TSMP) by payment of \$17,600 for 88 ft of stream loss associated with this relocation.

Rankin Branch, Station 85+50, Lat. 36.3662° Long. -86.5054°, would be crossed with a 258 ft, 3 barrel concrete box bridge, each barrel to be 14ft x 5ft. Proposed as mitigation is payment of \$51,600 to the TSMP. Wetland 4, 0.014 acres, is proposed to be filled during the construction of this stream crossing.

After crossing Rankin Branch this new road is aligned on a hillside paralleling the floodplain. A 20ft riprap stormwater outfall is proposed to Rankin Branch at Station 87+30+/-.

Improvements are also proposed for US 31E (SR-6). These improvements include a 34ft extension of the existing 100ft 7.2ft x 8.0ft concrete box culvert over Rankin Branch. Proposed as mitigation for this stream impact is payment of \$6,800 to the TSMP.

Total stream mitigation for this project is a proposed payment of \$76,000 to the TSMP. No wetland mitigation is proposed, as the total wetland impacts are 0.095 acres, below the 0.1-acre mitigation threshold.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the Division has determined that the proposed activity will result in degradation to water quality for all three streams in the project area. A Tier Evaluation was conducted, showing the streams are Tier 1.

PERMIT COORDINATOR: Judy Manners

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this**

notice is posted. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying.

The department's address is:

Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.



Photo 1: View from US 31E at St. Blaise Road



Photo 2: View of canopy over the headwaters of Stream 1



Photo 3: Stream 1



Photo 4: Stream 1 entering Wetland 2 at Rankin Branch



Photo 5: Stream 2 discharges overland

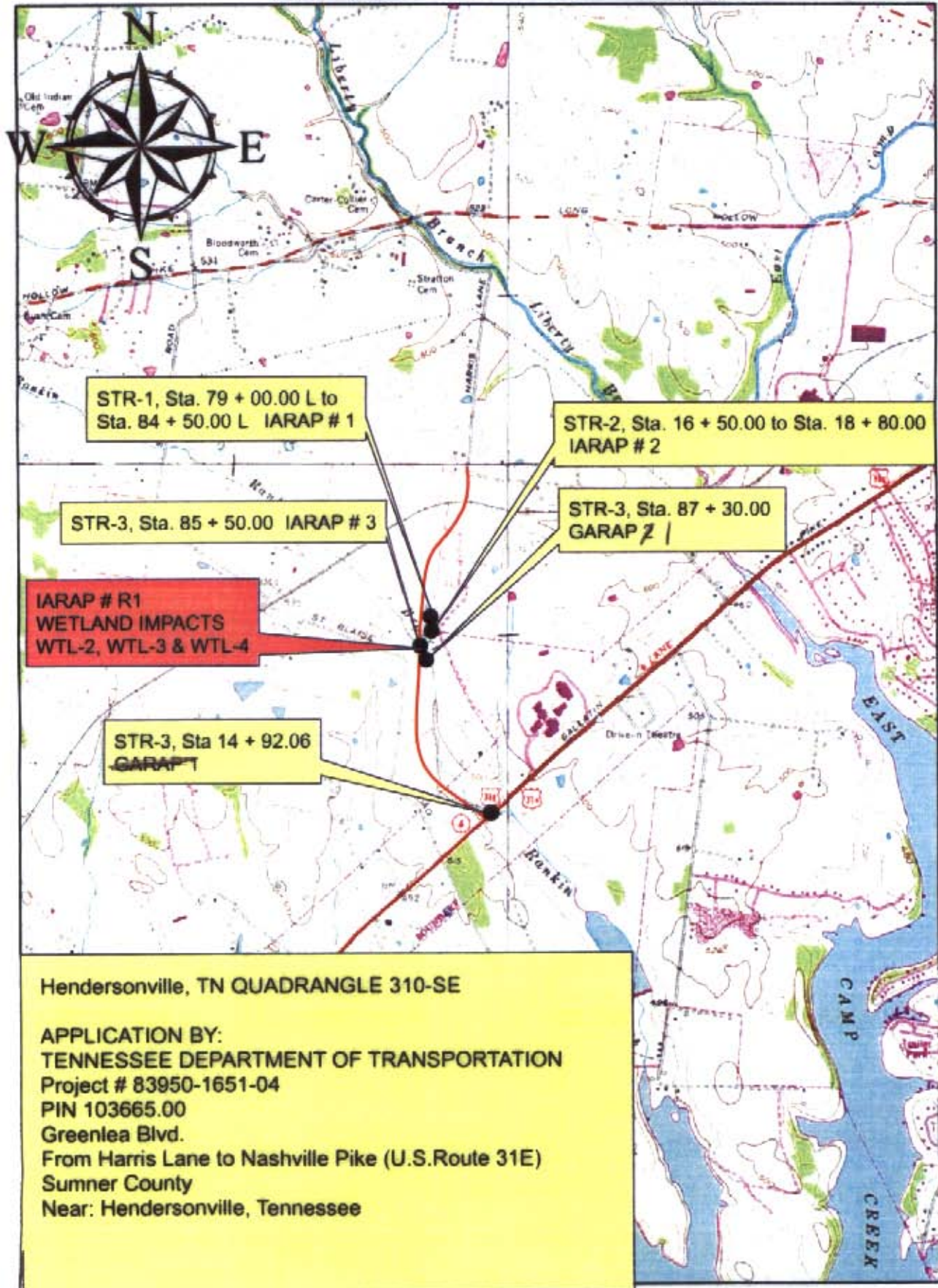


Photo 6: Rankin Branch at proposed Greenlea Blvd. crossing

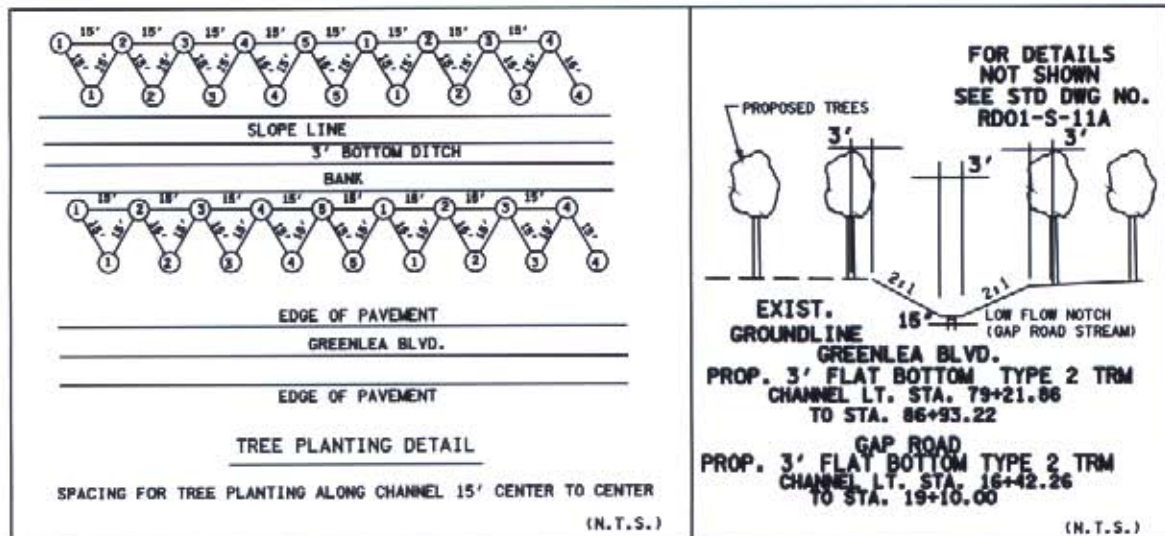


Photo 7: Rankin Branch at proposed US 31E crossing extension

0 900 1,800 3,600 5,400 7,200 Feet



Permit Sketch



CODE#	ITEM#	TREE DESCRIPTION	QUANTITIES	
①	802.01.10	TREES (CELTIS OCCIDENTALIS 1-1/4" 1-1/2" CAL. B&B)	47	EACH
②	802.01.11	TREES (ACER SACCHARUM 1-1/4" 1-1/2" CAL. B&B)	47	EACH
③	802.01.12	TREES (JUNIPERUS VIRGINIANA 1-1/4" 1-1/2" CAL. B&B)	47	EACH
④	802.01.13	TREES (FRAXINUS PENNSYLVANICA 1-1/4" 1-1/2" CAL. B&B)	47	EACH
⑤	802.01.14	TREES (ULMUS AMERICANA 1-1/4" 1-1/2" CAL. B&B)	47	EACH

NOTE:

NO SUBSTITUTIONS FOR ANY OF THE ABOVE SPECIES WILL BE ACCEPTED WITHOUT WRITTEN PERMISSION FROM THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY TREES FOUND TO BE EITHER INCORRECT SPECIES, IMPROPERLY PLANTED, OR WHICH DO NOT SURVIVE, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES WILL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION.

TREE PLANTING DETAILS AND NOTE

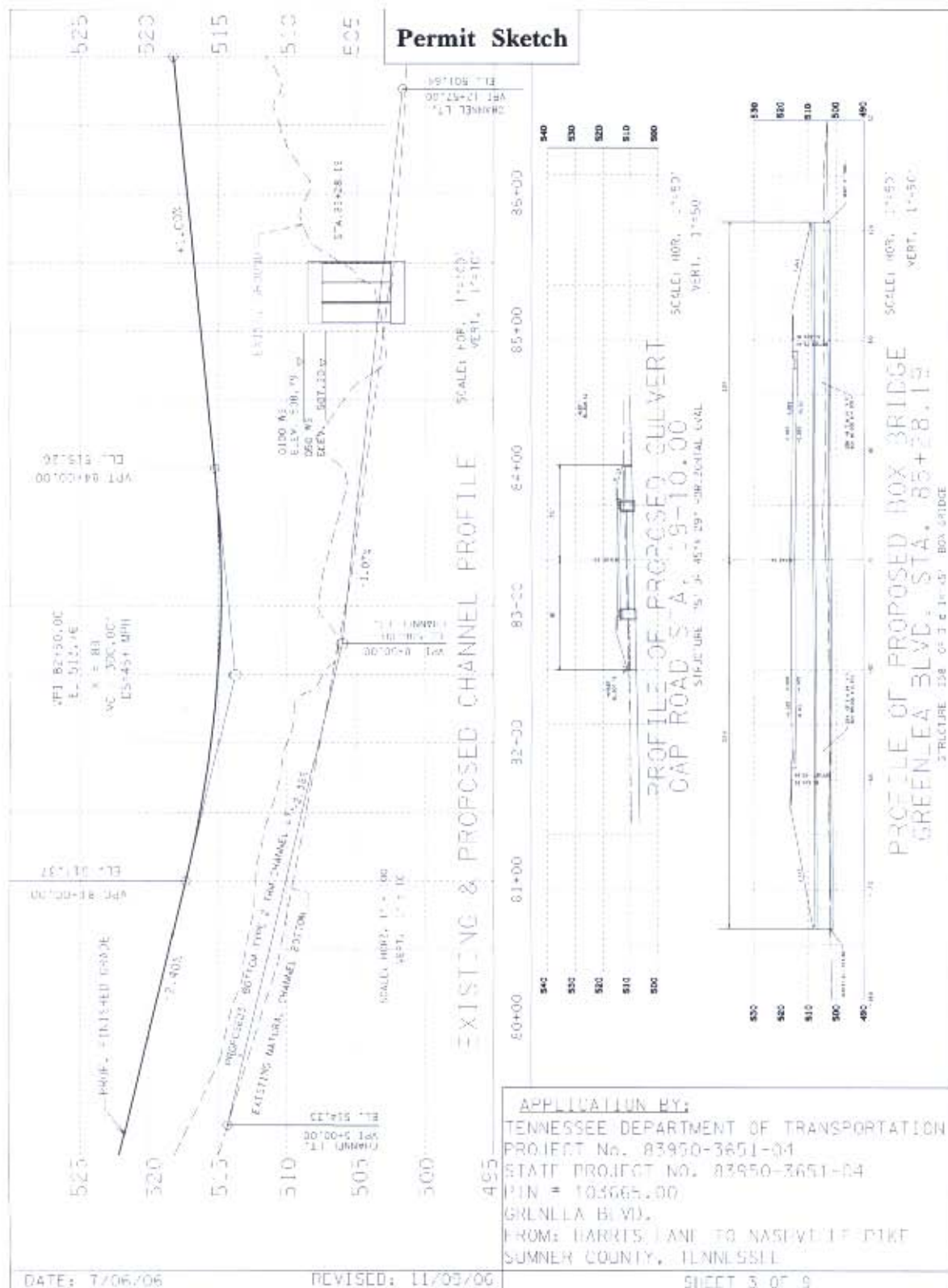
APPLICATION BY:

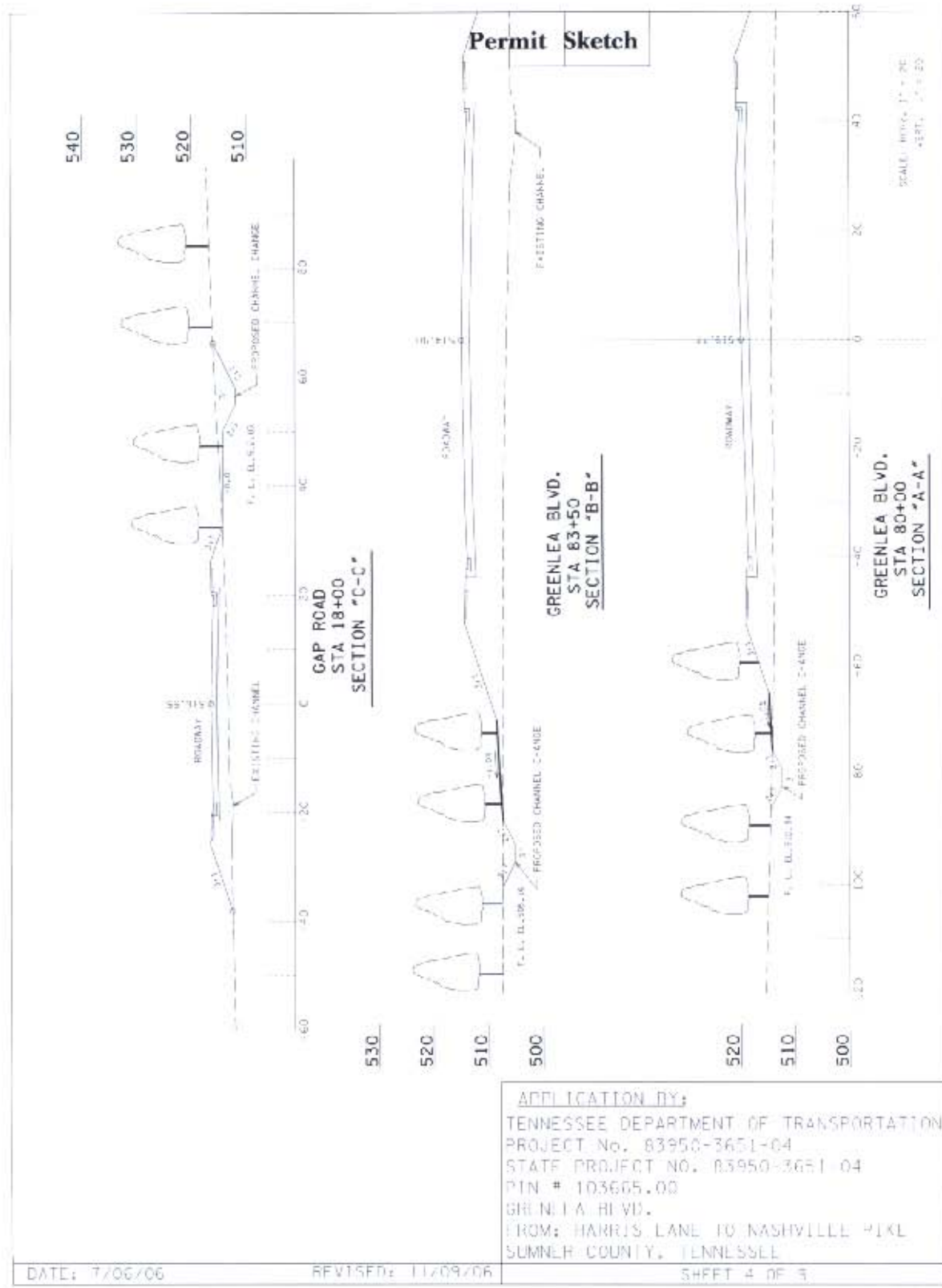
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT NO. 83950-3651-04
STATE PROJECT NO. 83950-3651-04
PIN # 103665.00
GREENLEA BLVD.
FROM: HARRIS LANE TO NASHVILLE PIKE
SUMNER COUNTY, TENNESSEE

DATE: 7/06/06

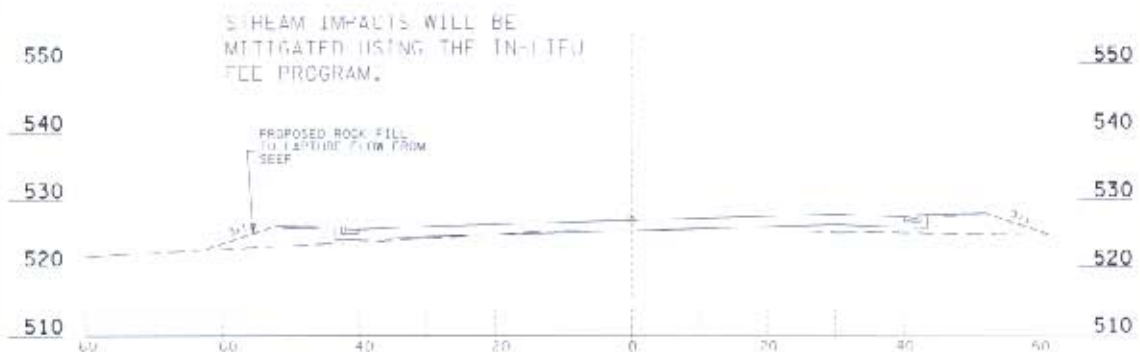
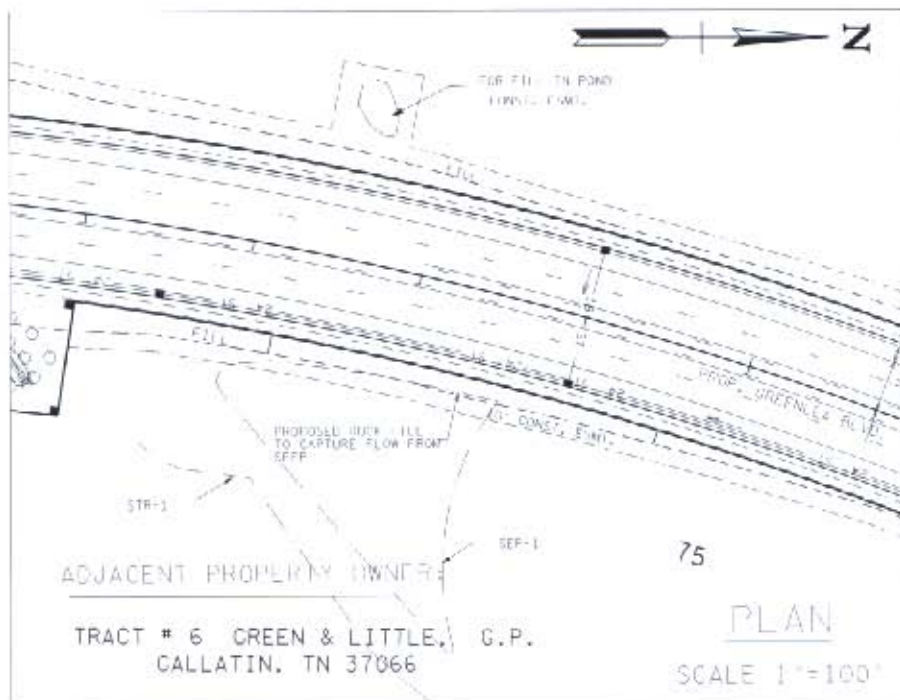
REVISED: 12/07/06

SHEET 2 OF 9





Permit Sketch



GREENLEA BLVD.
STA 77+00
SECTION "D-D"

SITE: STR-1 & SEP-1

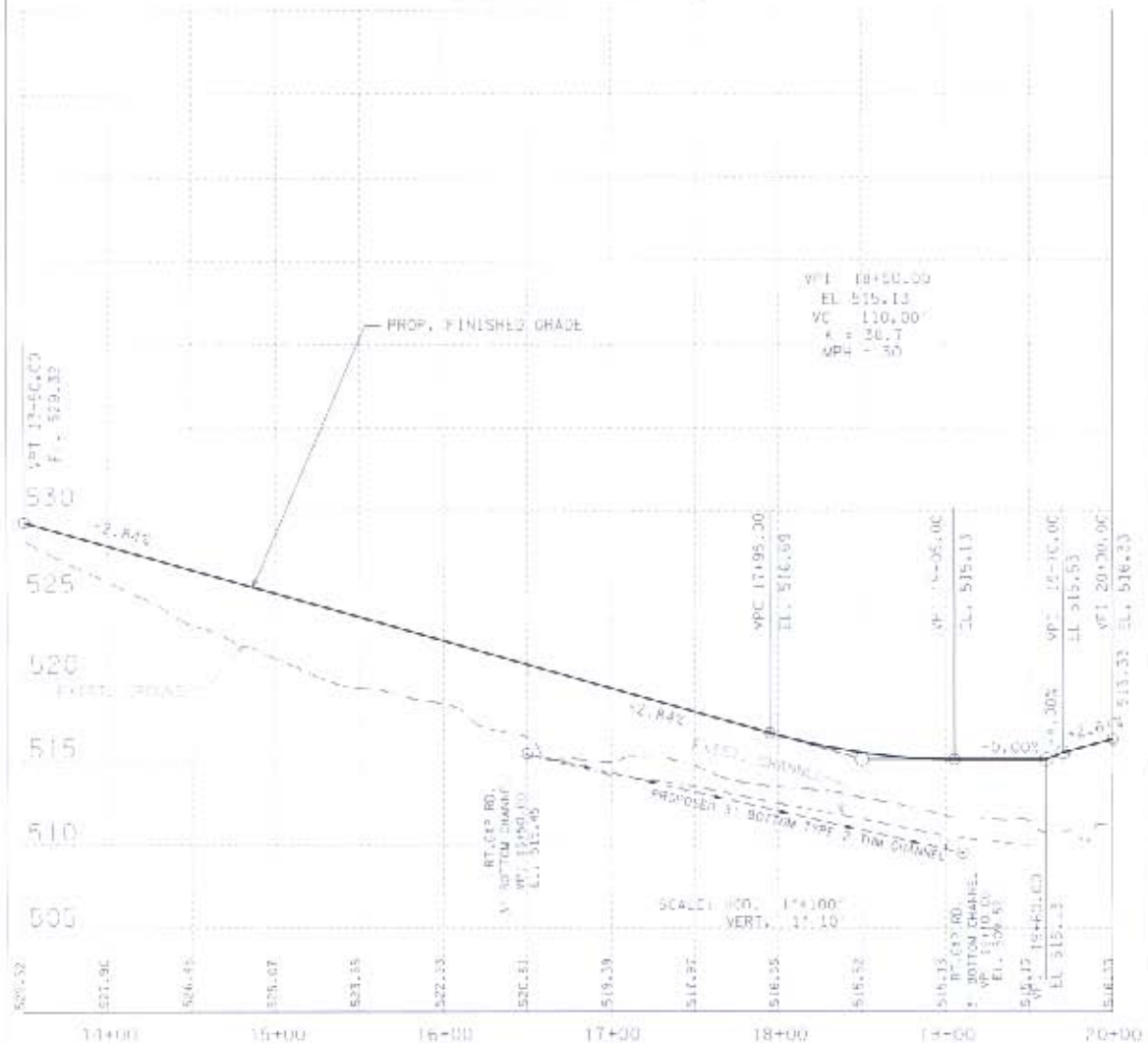
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FROM: HARRIS LANE TO NASHVILLE PIKE
SUMNER COUNTY, TENNESSEE

DATE: 7/06/06

REVISÉ: 11/09/06

SHEET 5 OF 9

Permit Sketch



LT. Q STA. 81+48.55

GAP ACCESS ROAD

EXISTING & PROPOSED CHANNEL PROFILE

SITE: STR 2

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
PROJECT NO. 83950-3651-04
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PIN # 103669.00
GRENLEA BLVD.
FROM: HARRIS LANE TO NASHVILLE PIKE
SUMNER COUNTY, TENNESSEE

SHEET 4 OF 6 FOR CROSS-SECTION DETAILS
SECTION "C-C"

DATE: 7/06/06

REVISED: 11/09/06

SHEET 6 OF 9

Permit Sketch

NOTE:

STREAM IMPACTS WILL BE MITIGATED USING THE IN-LIEU FEE PROGRAM.

CHANNEL RELOCATION SEQUENCE AND IMPLEMENTATION NOTES FOR RELOCATED STREAM CHANNELS

1. THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP, SEEDING AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.
2. CHANNEL RELOCATION SEQUENCE
 - A. FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO GRADING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.
 - B. EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.
 - C. SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.
 - D. PLACE TOPSOIL, EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER, SEED, AND SOD AS SPECIFIED.
 - E. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM, BANKS AND BOTTOM. ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.
 - F. INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.
3. ONLY RIP RAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE DISCUSS WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.
4. REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS. THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION MAY MAKE RECOMMENDATIONS CONCERNING EROSION CONTROL VIA THE ENGINEER WITHOUT SUCH REFERRAL.

TREES

NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE TDOT ENVIRONMENTAL PLANNING AND PERMITS DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, BARK AND BARK APPRI, AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.

ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO INSURE SURVIVAL.

CHANNEL RELOCATION SEQUENCE NOTES

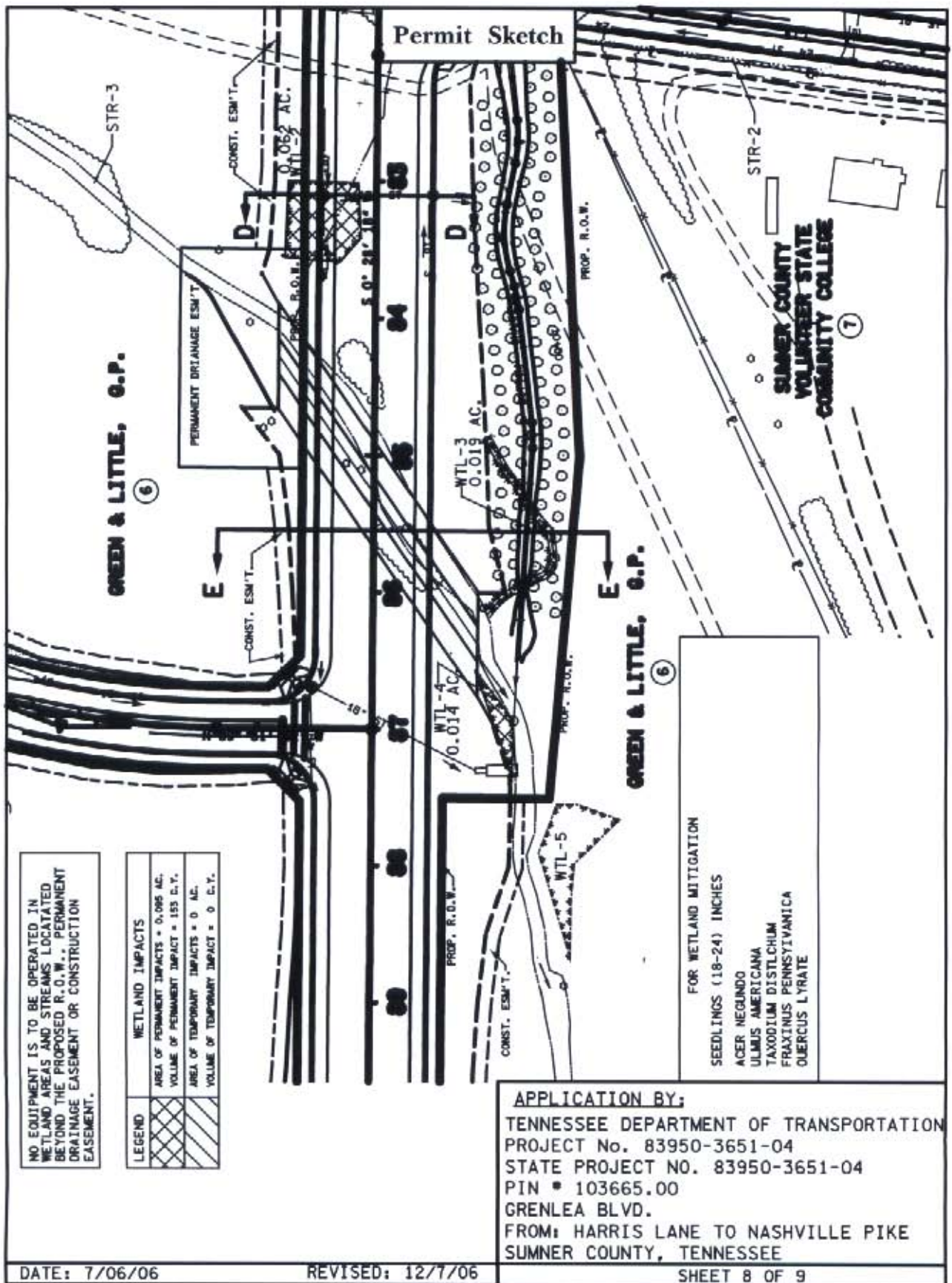
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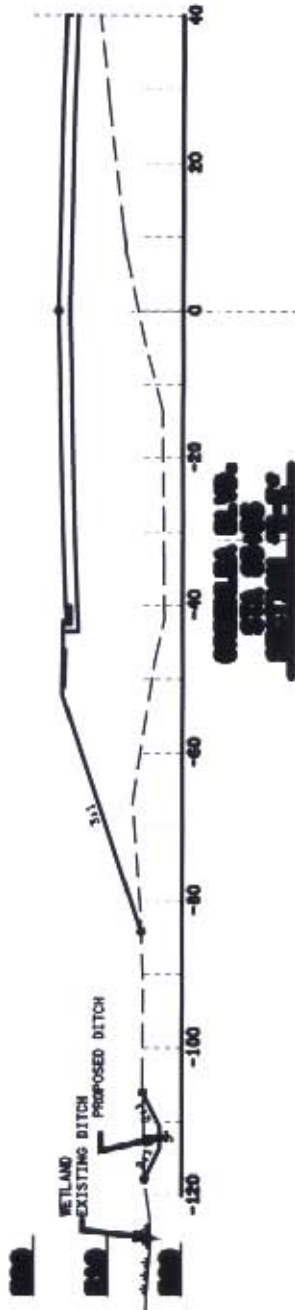
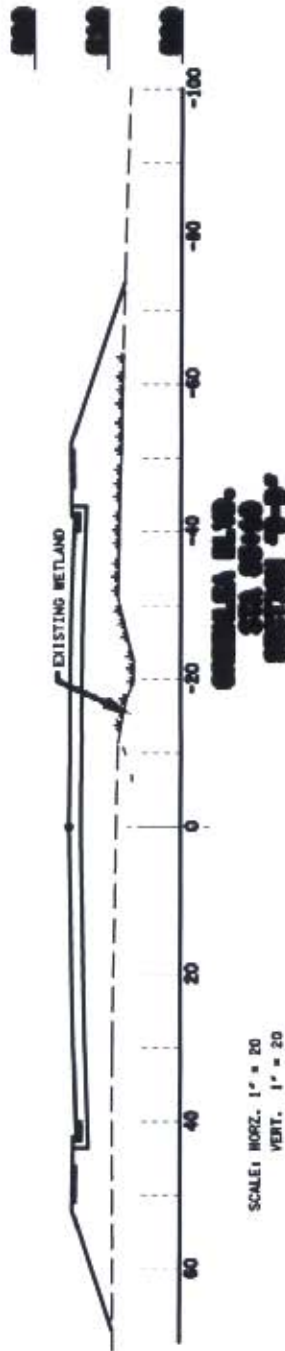
DATE: 7/06/06

REVISED: 11/09/06

SHEET 7 OF 9



Permit Sketch



SEE SHEET 8 OF 9 FOR PROFILE OF GRENLEA BLVD.

LEGEND	WETLAND IMPACTS	
		AREA OF PERMANENT IMPACTS = 0.086 AC.
		VOLUME OF PERMANENT IMPACT = 155 C.Y.
		AREA OF TEMPORARY IMPACTS = 0 AC.
		VOLUME OF TEMPORARY IMPACT = 0 C.Y.

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REVISED: 12/7/06

SHEET 9 OF 9